



Sponsoring Brochure

An ETH Zurich **Focus Project**

Mechanotherapeutic Wound Dressings

A student-led research project.



The Team

Dynova consists of ten ETH Zurich engineering and health science bachelor students. What unites them is a passion for exploration and a deep interest in medical technology. Notably, **Dynova** is one of the very few Focus Projects initiated entirely by students rather than by the supervising laboratory itself.

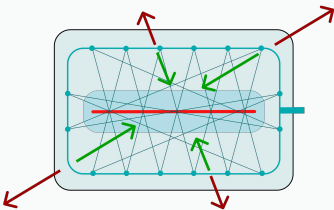
What is a Focus Project?

At ETH Zurich, third-year Bachelor's students from D-MAVT, D-ITET, and D-HEST can apply for a Focus Project. This unique framework allows them to apply their theoretical knowledge to a real-world problem by developing a fully functional, innovative prototype. over the course of one academic year.

Our Mission

Relevance

Over 300 million people worldwide suffer from chronic or acute wounds requiring medical treatment.



Conceptual visualization of mechanical offloading on a linear incision wound to minimize scar formation.

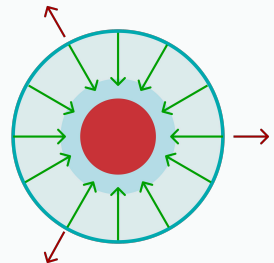
Vision

Dynova aims to leverage mechanotherapy for dermal wound healing by developing an innovative prototype of a mechanically active dressing.

This dressing uses real-time sensing and a closed-loop system to create the ideal mechanical environment for healing.

Innovation & Education

Dynova represents more than just a promising innovation in the field of wound healing. For the students involved, it is an incredible opportunity to apply the theoretical knowledge gained at ETH Zurich within an interdisciplinary team, while experiencing an entire product development cycle.



Conceptual visualization of radial wound contraction to accelerate healing and minimize complications.

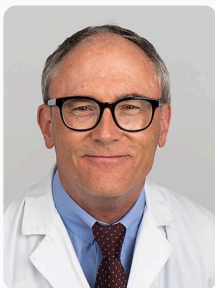
Our Partners



**Prof. Dr.
Edoardo Mazza**

Project Supervisor

ETH Zürich
Experimental
Continuum
Mechanics Lab



**Prof. Dr. med.
Jürg Hafner**

Medical Expert

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In Collaboration with:

ETH zürich



USZ Universitäts
Spital Zürich